

04C0

02-13-01
OIPE

N° 3

ENTERED

See P. 5

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
 TIME: 13:18:47

Input Set : A:\427c23.TXT
 Output Set: N:\CRF3\01292001\I759143.raw

3 <110> APPLICANT: Xu, Jiangchun
 4 Dillon, Davin C.
 5 Mitcham, Jennifer L.
 6 Harlocker, Susan L.
 7 Jiang, Yuqui
 8 Henderson, Robert A.
 9 Kalos, Michael D.
 10 Fanger, Gary R.
 11 Retter, Marc W.
 12 Stolk, John A.
 13 Day, Craig H.
 14 Vedvick, Thomas S.
 15 Carter, Darrick
 16 Li, Samuel
 17 Wang, Aijun
 18 Skeiky, Yasir A.W.
 19 Hepler, William
 24 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
 25 DIAGNOSIS OF PROSTATE CANCER
 27 <130> FILE REFERENCE: 210121.427C23
 C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/759,143
 30 <141> CURRENT FILING DATE: 2001-01-12
 32 <160> NUMBER OF SEQ ID NOS: 934
 34 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 36 <210> SEQ ID NO: 1
 37 <211> LENGTH: 814
 38 <212> TYPE: DNA
 39 <213> ORGANISM: Homo sapien
 41 <220> FEATURE:
 42 <221> NAME/KEY: misc_feature
 43 <222> LOCATION: (1)...(814)
 44 <223> OTHER INFORMATION: n = A,T,C or G
 46 <400> SEQUENCE: 1
 47 tttttttttt tttttcacag tataacagct ctttatttct gtgagttcta ctaggaaatc 60
 48 atccaaatctg agggttgtct ggaggacttc aatacacctc cccccatagg gaatcagctt 120
 49 ccagggggtc cagtcctct ctttacttca tccccatecc atgccaaagg aagaccctcc 180
 50 ctctttgtct cacagcccttc tcttaaggctt ccagtgccctc caggacacag tggttatgt 240
 51 tttagctcctt atcccttgcgt tgagtgtctg gtgcgttgcgtt cctccagctt ctgctcagtg 300
 52 cttagatggac agtgtccacgc acatgtcaacttctc tcagttgtggat tccacttagtt 360
 53 cttagagccgc cgccacccgcgt gtggagccctc agctttttgtt ccctttatgtt aagggtlaatt 420
 54 ggcgcgttgg ctgtatcatgt gtatcaacttgc ttctctgtgtt gaaattttgtt tccgtcteaca 480
 55 atttccacacaca acatacagaccccgatata aaggtttaaag cctgggggtgc ctaatgttg 540
 W--> 56 anctaactca cattaattgc gttgcgtctca ctgnccgtt tccagtcngg aaaactgtcg 600
 W--> 57 tgccagctgc attaatgaat cggccaacgc ncggggaaaa ggggtttgcgt ttttggggc 660
 W--> 58 tcttccgtt ctgcgtcaacttctc nantccgtcgct ctcgtcttccgtcgccc gaacggatc 720
 W--> 59 actcctcaaa ggnggttata cggttatccn naaatcnggg gataaccnggg aaaaaanttt 780
 W--> 60 aacaaaaggc cancaaaggc cngaaacgtt aaaa 814

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
TIME: 13:18:47

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

```

62 <210> SEQ ID NO: 2
63 <211> LENGTH: 816
64 <212> TYPE: DNA
65 <213> ORGANISM: Homo sapien
67 <220> FEATURE:
68 <221> NAME/KEY: misc_feature
69 <222> LOCATION: (1)...(816) /
70 <223> OTHER INFORMATION: n = A,T,C or G
72 <400> SEQUENCE: 2
73 acagaatgt tggatggtgg agcacccattatacgactt acaggacacg agatggggaa 60
74 ttcatggctt tggagcaat agaaccccaag ttctacgagc tgctgatcaa aggacttggaa 120
75 ctaaagtctgtatgacttcc caatcgatg aacatggatg atttggccaaat aatgaaraaq 180
76 aagtttgcag atgttatttc aaaaagacg aaggcagagt qgtgtcaaat ctttgacgac 240
77 acatcgccgttgcgtactcc ggttctgact tttgaggagg ttgttccatca tgatccaaac 300
78 aaggaaacggg gctcgtttat caccagtgaq gaggcaggacq tgagccccccg cccttgcact 360
79 ctgtttaad acaccccaqc catcccttct ttcaaaaaggg atccactatg tctagaacq 420
80 qccggccacccgggtggagct ccacgttttg ttccctttag tgagggttaa ttggccggctt 480
81 ggcgttaatca tggtcatagc tggttccatgt gtggaaattgt tatccgtctca caatcccccc 540
W--> 82 aacatacgag ccggaaacata aagtgttaag cttgggggtc ctaatcganty agctaactcn 600
W--> 83 cattaattgc gttgcgtca ctggccgtt tccagtcggg aaaactgtcg tgccactgn 660
W--> 84 ttantgaatc ngccaaaaaaaagg cggttgcntt ttgggcctct tccgctttcc 720
W--> 85 tccgttccatggatccnc ccggcttccg gctgcggngaa acggttcaact cctcaaaaggc 780
W--> 86 ggtnnccgg ttatccccaa acnggggata cccnga 816
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 773
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapien
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (1)...(773) /
96 <223> OTHER INFORMATION: n = A,T,C or G
98 <400> SEQUENCE: 3
99 cttttgaaag aaggatggc tgggggtttt aacacgacg agtgcaggcgg ggggtcacaq 60
100 tcctgcctt cactgggtat aaacgagcc cgttccatgt tggtatcgat atgaaacaacc 120
101 tcctcaaaag tcagaacccgg agtccacacag gcatctgtgc cgtcaaaatgt ttgacacac 180
102 tctgccttcg tcttctttgc aaatacatct gcaaaacttct tcttcatttc tggccaaatca 240
W--> 103 tccatgtctatgttggg aacttcatca gacttttagtc canntccctt gatcagcagc 300
104 tcgttugaact ggggttctat tgctccaaca gcatgttatttccatctgc tgctctgtaa 360
105 gtcqtataga aagggtgtcc accatccaaat atgttctgtc ctcgagggggg ggcccggtac 420
W--> 106 ccaattcgcctatantggatcg tctgttattacg cgcgtcaact ggcgcgttgtt ttacaacgtc 480
107 gtgactggaa aaaccctggg cgttaccaac ttaatcgct tgcagocacat cccccccttcg 540
W--> 108 ccagctggc gtaatancga aaaggcccccc accgatcgccttccaaacag ttgcgcacct 600
W--> 109 gaatgggnaa atgggacccc cctgttaccg cgcattaaac ccccgcnnggg tttngttgtt 660
W--> 110 acccccaacnt nnaccgttta cacttgcaca gcgccttanc gcccgcctcc ttcnccttt 720
W--> 111 ctcccccttcc tttcncccn ctttccccccgggttcccccc cncatcaaccc cna 773
113 <210> SEQ ID NO: 4
114 <211> LENGTH: 828
115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapien

```

RAW SEQUENCE LISTING DATE: 01/29/2001
PATENT APPLICATION: US/09/759,143 TIME: 13:18:47

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
TIME: 13:18:47

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\1759143.raw

```

173 <223> OTHER INFORMATION: n = A,T,C or G
175 <400> SEQUENCE: 6
176 tttttttt tttttttt aaqaccctca tcaatagatg gagaacataca gaaatagtca      60
177 aaccacatct acaaaatgcc agtatcaqgc ggccggctcg aqccaaagt gatgtttqga    120
178 tgtaaagtga aatatttagtt ggccggatgaa qeagatagtg agggaaatgtg aqccaaatant 180
179 gacgtgaaat ccgtggaaagc ctgtggctac aaqaaatgtt gagccgtlaga tgccgtcgga 240
180 aatgttggaa qgaggactcgta agtactctga ggcttggtaqg agggtaaaaat agagacccag 300
181 taaaattgtt ataaatcgatg cttagatttttgg ttgttttcata tttagactatg        360
182 gtgagctcgat gtgtttgttgc ctccgtatgc qagtaataccg gatgtgttta ggagtgggac 420
183 ttcttaggggat tttagcgggg tgatgttgc tgccgtcgatg tggggggccat gttgggggg 480
184 aggggtctgg ctgggtgttgg aaaaggctca gaaaaatctt gcqaagaaaa aaacttctgt 540
185 ggttaataat aqqtatattcc ctgatcgaaqg ggcttggatqg acagggtggtg tgggttgccc 600
186 ttggatgttgc ttatgttgc ccatcattgg tatatgttgc gtgtgttggg                660
W--> 187 ttantangc ctantatgaa gaacttttgg antggatta aatcaatngc ttggccggaa 720
W--> 188 gtcatttanga nggctnaaaa gcccgttta ngggtctggg ctngtttta cccnaccat 780
W--> 189 ggaatncnc cccggacna ntgnatccct attcttaa                           818
191 <210> SEQ ID NO: 7
192 <211> LENGTH: 817
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapien
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature /
198 <222> LOCATION: (1)...(817)
199 <223> OTHER INFORMATION: n = A,T,C or G
201 <400> SEQUENCE: 7
202 tttttttttt tttttttttt tggtctctaga gggggtagag ggggtgttat agggtaataa 60
203 cggggccctat ttcaaaatgtt ttaatccgtt gacgtatgggt atgaaactgt        120
204 gttttgtcc acagatttca gaggatttgc ctgtatatac ccccggttgt gttagcggtga 180
205 aagtggtttg gtttagacgtt ccgggtttt catctgtttt taagcctaattt gtyggggacag 240
W--> 206 ctcatgttgc caagacgtct tttttttttt aatgggggt tcaatcggtt            300
207 gtactactcg attgtcaacg tcaaggatgtc gcagggttttttcc tgggttttttcc 360
208 gaaatgttgc tttttttttt aattttttttt cttttttttt tttttttttt tttttttttt 420
209 attttttttt aattttttttt aattttttttt aattttttttt aattttttttt aattttttttt 480
W--> 210 aggatnttcc ngggtatggaa aggnatnnaa gggacttgc tttttttttt tttttttttt 540
W--> 211 tcaaacngtc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 600
W--> 212 gaaatnttcc ngggtatggaa aggnatnnaa gggacttgc tttttttttt tttttttttt 660
W--> 213 cttttttttt aatggatggaa accnctccca tttttttttt tttttttttt tttttttttt 720
W--> 214 acnattggat nccccccatcc canaaanggc cccccccccc tttttttttt tttttttttt 780
W--> 215 cttttttttt aatggatggaa accnctccca tttttttttt tttttttttt tttttttttt 817
217 <210> SEQ ID NO: 8
218 <211> LENGTH: 799
219 <212> TYPE: DNA
220 <213> ORGANISM: Homo sapien
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)...(799) /
225 <223> OTHER INFORMATION: n = A,T,C or G
227 <400> SEQUENCE: 8
228 catltccggg tttttttttt aaggaaagcc gagccggaaatc tgctaacgtt ggaatcggtg 60

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
TIME: 13:18:47

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

229	cataaggaga actttctgct ggcacgcgtt aqggacaaugc gggagagcgta ctccgacgcgt	120
230	ctgaagcgtt cgtccccagaa ggtggacttg gcaclganac agclgggaca catccgcgag	180
231	tacgaacacyc gctcttggaaatg qcttggacgcgg aqgtgtacgcg cgtcttgggg	240
W--> 232	tgggtggccg angccgtanc cgctctgtct tgcgtcccccc angtggccg ccacccttg	300
W--> 233	acctgcctgg gtccaaacac tgagccctgc tggcgactt caagganac ccccacangg	360
W--> 234	ggattttgtt ctanantaa ggctcatctg ggcttcggcc ccccacctg gttggcttg	420
W--> 235	tctttgangt gagecccatg tcacatggg ccactgtcng gaccacctt ngggagtgtt	480
W--> 236	tctcttacaa ccacannatg cccggcttgc cccggaaacc antcccancc tgngaaggat	540
W--> 237	caagnnctgn atccactntt ntananaaccg gcnccnccg cngtggaaacc cnccctntgt	600
W--> 238	tcttttctn tnagggtaa tnncgttgc gctttnccan ngtcttnnc nttnnnnt	660
W--> 239	gttnaaattt ttangcnccc ncnnnttccn cnncnnncan cccgaccnnn annnnnnann	720
W--> 240	ncctgggggt ncnnncgtat tgaccnncc nccctntant tgcnttnggg ncnnntgccc	780
W--> 241	cttccctctt nnnnnnnnn	799
243	<210> SEQ ID NO: 9	
244	<211> LENGTH: 801	
245	<212> TYPE: DNA	
246	<213> ORGANISM: Homo sapien	
248	<220> FEATURE:	
249	<221> NAME/KEY: misc_feature	
250	<222> LOCATION: (1)...(801) /	
251	<223> OTHER INFORMATION: n = A,T,C or G	
253	<400> SEQUENCE: 9	
254	acgccttgcgtt cttcccgaggc tgggacttgtt tctggggatg gccggggatg ctgtggttt	60
W--> 255	taangatgtac actccaaag gtgggtctgtt cagtgccca gatggacatg gggctcacct	120
256	caaggacaag gccacccaggc gccccggccg aaqcccacat qatccttact ctatgagca	180
W--> 257	aatccctgtt ggggcttctt ctttgcgttgc cgccancagg gctcgttctt tggaccang	240
W--> 258	caggcatgtt ggttgtnnc caactggggg ccncaacgca aaanggnca gggctcngn	300
W--> 259	caccatccc angacccggc tacactnctg gaccccttccncc tccaccattt tcatgcgtt	360
W--> 260	ttcncatcccg cgnatntgtc ccactgttgc cngtgcncncc tccancttctt nngacgtgcg	420
W--> 261	ctacatacgc cgggantcnc nctcccgctt tgcgttccatc cacgttccan caacaattt	480
W--> 262	cnccntantg cacnattcc cacnnttncn agnttccnc nncgngtcc tttntaaaag	540
W--> 263	gttgcgttcc cggaaaaatnc cccaaagggg gggggccnng tacccaaactt cccctnata	600
W--> 264	gctgaantcc ccataccnnn gntctnacttgc anccnttntt ttaannnac ttctnaactt	660
W--> 265	ggaaananc ctcgnccnnttcc ccccttnttgc tccncccttgc cnangnnncnttcc	720
W--> 266	ncnnnttngt gctntnann cnaaaaaggc ccnnnnancaa ttccttncn ctcanttcg	780
W--> 267	ccanccctcg aaatccggccn c	801
269	<210> SEQ ID NO: 10	
270	<211> LENGTH: 789	
271	<212> TYPE: DNA	
272	<213> ORGANISM: Homo sapien	
274	<220> FEATURE:	
275	<221> NAME/KEY: misc_feature/	
276	<222> LOCATION: (1)...(789)	
277	<223> OTHER INFORMATION: n = A,T,C or G	
279	<400> SEQUENCE: 10	
W--> 280	cagtttatnt ggccaggatgttgc gtagctttcc ctgtggctgc cggtgccaca tgcctgtccc	60
281	acagtgtggc cgtgggttaca gcttcacccgg ccctcaccgg gttcacccatc tcaagccctgc	120
282	agatccctgtcc ctacacacttgc gctccctctt accacccggga gaagcagggtt ttctgtccca	180
283	aataccggagg ggacacttggaa ggttgcgttgc gttggaggacag cctgtatgttgc agcttctgc	240

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/759,143DATE: 01/29/2001
TIME: 13:18:48Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

L:29 M:270 C: Current Application Number differs, Wrong Format
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
TIME: 13:18:48

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9